

Weekly Report

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09.15.2014 - 09.21.2014

Misc.

Before Friday I was preparing for my qualification exam and seminar report. After the prospectus defence, I find that a proper framework is needed to summarize all of my current and future projects. After this VIS season I should think of setting my own pace to manage my projects and explore future ones.

Visual SVM

The other days I summarized some points that should be taken into consideration in the near future:

- **Automated assistance for exploration** A deeper consideration of “what the users want to see” is necessary. At least the problem of how to design an interactive algorithm to find informative projection matrices must be solved since reviewers have pointed it out.
- **Local linear SVMs** From one of the reviewer’s opinion and after further review of the local linear SVM prediction method, I find that the prediction problem is not that simple. I haven’t figure out how to deal with this part yet.
- **Evaluation** Like what Prof. Kun Zhou argued in my qualification defence, a comprehensive and convincing case study on a proper dataset is necessary for our paper. The Wall-follow robot dataset is still available to use, however it seems that some common datasets in ML literature are necessary. Moreover the user study is also feasible after the system has been finished.

One of the problem now is that, besides Prof. Tung, I need to find a machine learning expert to get their feedback about my ideas and my current system. I made an appointment next week with one of my classmates whose research field is machine learning.

Plan for Next Week

In the next couple of weeks I will spent most of my time on the SVM project, while other projects will be kept going on.